AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A heat sink comprising:

a core having a central axis; and

a plurality of cooling fins arranged about the core, wherein said fins are curved toward a tangential component of airflow and wherein at least one an upper portion of each of said curved fins is bent along its height.

- 2. (Previously presented) The heat sink recited in claim 1, wherein the fins are shaped to capture the tangential component.
- 3. (Currently amended) The heat sink recited in claim 1, wherein an the upper portion of each of the curved fins is bent toward the tangential component.
- 4. (Withdrawn) The heat sink recited in claim 3, wherein a lower portion of each of said fins is also bent towards the tangential component.
- 5. (Withdrawn) The heat sink recited in claim 1, wherein another portion of each of said fins is bent.
- 6. (Withdrawn) The heat sink recited in claim 1, wherein each of said fins is provided in a swept manner about said core.
 - 7. (Withdrawn) A heat sink for use with an axial flow fan comprising: a core having a central axis; and

a plurality of cooling fins arranged about the core, each fin having a base and a tip, wherein each of said fins is provided in a swept manner about said core.

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- 8. (Withdrawn) The heat sink recited in claim 7, wherein an upper portion of each of the fins is bent.
- 9. (Withdrawn) The heat sink recited in claim 8, wherein a lower portion of each of said fins is also bent.
- 10. (Withdrawn) The heat sink recited in claim 7, further comprising:
 a first face having a semi-rectangular periphery that is defined by the fin tips, and which is to thermally contact a heat-generating electrical component.
- 11. (Withdrawn) The heat sink recited in claim 10, further comprising:
 a second face, substantially opposite the first face, and having a periphery that is defined by the fin tips.
- 12. (Withdrawn) The heat sink recited in claim 7, wherein the core comprises a central cavity to receive a thermal plug formed of a material having a high thermal conductivity.
- 13. (Withdrawn) An electronic assembly comprising:
 a substrate;
 an electronic component mounted on a surface of the substrate;
 an axial flow fan to move air towards the substrate, the air having an axial component and a tangential component; and
 - a heat sink including:
 - a first face in thermal contact with the electronic component;
 - a second face facing the fan;
 - a core having a central axis; and
 - a plurality of cooling fins arranged about the core, wherein at least one portion of each of said fins is bent.
- 14. (Withdrawn) The electric assembly recited in claim 13, wherein an upper portion of each of the fins is bent.



- 15. (Withdrawn) The electric assembly recited in claim 14, wherein a lower portion of each of said fins is also bent.
- 16. (Withdrawn) The electric assembly recited in claim 13, wherein another portion of each of said fins is bent.
- 17. (Withdrawn) The electric assembly recited in claim 13, wherein each of said fins is provided in a swept manner about said core.
- 18. (Withdrawn) The electronic assembly recited in claim 13, wherein the electronic component comprises an integrated circuit (IC).
 - 19. (Withdrawn) An electric system comprising: a circuit board;
 - a processor integrated circuit (IC) mounted on the circuit board;
- at least one chipset mounted on the circuit board and electrically coupled to the processor IC for operation in conjunction with the processor IC;
 - at least one axial flow fan to move air towards the circuit board; and at least one heat sink including
 - a first face in thermal contact with either the processor IC or the chipset;
 - a second face facing the at least one fan;
 - a core having a central axis; and
 - a plurality of cooling fins arranged about the core, each fin having a base and a tip, wherein at least one portion of each of said fins is bent.
- 20. (Withdrawn) The electric assembly recited in claim 19, wherein an upper portion of each of the fins is bent.
- 21. (Withdrawn) The electric assembly recited in claim 20, wherein a lower portion of each of said fins is bent.

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- 22. (Withdrawn) The electric assembly recited in claim 19, wherein another portion of each of said fins is bent.
- (Withdrawn) The electric assembly recited in claim 19, wherein each of said fins 23. is provided in a swept manner about said core.
- (Withdrawn) A method of forming a heat sink, said method comprising: obtaining a quantity of thermally conductive metal; forming from the quantity a plurality of fins extending outwardly from a core, the core having a central axis, each fin having a base coupled to the core; and forming a bend in each of said fins.
- 25. (Withdrawn) The method in claim 24, wherein forming said bend in each of said fins comprises coupling said heat sink to a die and rotating said die relative to a fixed position so as to create said bend in each of said fins.
- 26. (Withdrawn) The method recited in claim 24, wherein forming said bend in each of said fins comprises coupling said heat sink to a first die and to a second die, and rotating said first die relative to said second die so as to create said bend in each of said fins.
- 27. (Withdrawn) The method recited in claim 24, wherein before forming said bend, said method comprises:

separating a portion of each fin from the core.

- (Withdrawn) The method recited in claim 24, wherein forming said plurality of 28. fins comprises extruding the quantity of thermally conductive metal through an extrusion die.
- 29. (Withdrawn) The method recited in claim 28, wherein the thermally conductive metal comprises aluminum.

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24.

- 30. (Withdrawn) The method recited in claim 28, wherein said plurality of fins are formed in a swept manner about said core.
- 31. (Withdrawn) The method recited in claim 28, wherein each of said plurality of fins are curved.
- 32. (Withdrawn) The method recited in claim 24, further comprising forming another bend in each of said fins.
- 33. (Withdrawn) A method of making an electronic assembly, the method comprising:

mounting an electronic component on a circuit board;

providing an axial flow fan, the fan capable of moving air; and
mounting a heat sink between the electronic component and the fan, the heat sink
comprising a plurality of cooling fins arranged about a core having a central axis, each fin having
a base coupled to the core, wherein a portion of each of said fins is bent.

- 34. (Withdrawn) The method recited in claim 32, wherein the electronic component is from the group consisting of a processor, a chipset integrated circuit (IC), a digital switching circuit, a radio frequency (RF) circuit, a memory circuit, a custom circuit, an application specific IC (ASIC), and an amplifier.
- 35. (Withdrawn) The method recited in claim 32, wherein each fin has a tip, wherein a first face of the heat sink is in thermal contact with the electronic component and has a periphery that is defined by the fin tips, and wherein a second face of the heat sink, substantially opposite the first face, faces the fan and has a periphery that is defined by the fin tips.
- 36. (Currently amended) The heat sink recited in claim 1, wherein each of the fins includes a vertical portion and an angled portion, wherein the at least one upper portion is the angled portion.

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- 37. (Previously presented) The heat sink recited in claim 36, wherein the angled portion of each of the fins is bent in the same direction.
- 38. (Previously presented) The heat sink recited in claim 36, wherein the vertical portion and the angled portion form an angle.
- 39. (Previously presented) The heat sink recited in claim 38, wherein the angle is approximately 150 degrees.
- 40. (Currently amended) A heat sink comprising:

 a core having a central axis; and

 a plurality of cooling fins extending radially away from the core in respective curves, the curved fins being additionally bent along their height.
- 41. (Currently amended) The heat sink recited in claim 40, the fins having a first portion and a second portion, wherein the first portion is a vertical portion and the second portion is an angled portion, wherein the angled portion is bent.
- 42. (Previously presented) The heat sink recited in claim 41, wherein the first and second portions form an angle.

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